

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY

SITE-SPECIFIC QUALITY ASSURANCE PROJECT PLAN (QAPP) ADDENDUM

SUPERFUND SITE ASSESSMENT & SECTION 128(a) ASSESSMENT PROGRAMS

Note: This Addendum supplements the Generic QAPP for Superfund Site Assessment and Section 128(a) Assessment activities (Revised January 2016) and includes documentation only for the specific site/project indicated. The Addendum is only necessary for projects with sampling requirements needed to accomplish site assessment activities.

1. SITE NAME AND LOCATION:

Name: AltEn Operating Company LLC

Address or Other Location Identifier: 1344 County Road 10

City: Mead **County:** Saunders **State:** NE **ZIP:** 68041

Site Point of Contact (POC) Name: Daniel LeMaistre **POC Email:** Daniel.lemaistre@nebraska.gov

Telephone: 402-471-4203 **FAX:** N/A

Directions to Site: Two miles south of Mead, NE **Map(s) attached:** Yes

2. PROJECT MANAGEMENT AND PROJECT INFORMATION:

Distribution List (Check as appropriate and identify):

- | | |
|---|---|
| <input checked="" type="checkbox"/> NDEQ Section/Unit Supervisor(s): Mike Felix | <input checked="" type="checkbox"/> NDEQ QA Manager: Mark Lohnes |
| <input type="checkbox"/> NDEQ Program Coordinator: | <input checked="" type="checkbox"/> NDEQ Project Manager(s): Daniel LeMaistre |
| <input type="checkbox"/> Contractor Project Manager (Specify): | <input type="checkbox"/> Other (Specify): |

2.1 Project and Task Organization (Check as appropriate and identify):

- | | |
|--|--|
| <input checked="" type="checkbox"/> NDEQ Project Manager: Daniel LeMaistre | <input checked="" type="checkbox"/> NDEQ QA Manager: Mark Lohnes |
| <input type="checkbox"/> Contractor Project Manager: | <input type="checkbox"/> Site Safety Officer: |

2.2 Problem Definition and Background: (Check to indicate items are attached)

- | | |
|--|---|
| <input type="checkbox"/> Discussion of site-specific conditions | <input type="checkbox"/> Table indicating maximum concentrations detected |
| <input checked="" type="checkbox"/> Maps and Figures | <input type="checkbox"/> Table indicating concentrations of concern |
| <input type="checkbox"/> Table indicating number and types of field and QC samples to be collected | |
| <input type="checkbox"/> Discussion of laboratory deviations from latest version of EPA SOP 2440.5 (if applicable) | |

2.3 Project and Task Description/Type(s) (Check as appropriate):

- | | |
|---|---|
| <input type="checkbox"/> Pre-CERCLIS Site Screening Assessment (PCSSA) | <input type="checkbox"/> Preliminary Assessment (PA) |
| <input type="checkbox"/> Abbreviated Preliminary Assessment (APA) | <input type="checkbox"/> Site Inspection (SI) |
| <input type="checkbox"/> Expanded Site Inspection (ESI) | <input type="checkbox"/> Focused Site Inspection (FSI) |
| <input type="checkbox"/> Section 128(a) Assessment - Phase I Investigation | <input type="checkbox"/> Site Re-Assessment (SR or SI-2) |
| <input type="checkbox"/> Section 128(a) Assessment - Phase II Investigation | <input checked="" type="checkbox"/> Other (Specify and attach description): Samples of seed corn, stored wet-cake solids, effluent wastewater, and lagoon wastewater. |

2.4 Quality Objectives and Criteria for Measurement Data: (Check appropriate boxes)

- | | | |
|---------------------|---|---|
| Accuracy: | <input checked="" type="checkbox"/> According to Generic Site Assessment QAPP | <input type="checkbox"/> Identified in attached table |
| Precision | <input checked="" type="checkbox"/> According to Generic Site Assessment QAPP | <input type="checkbox"/> Identified in attached table |
| Representativeness: | <input checked="" type="checkbox"/> According to Generic Site Assessment QAPP | <input type="checkbox"/> Identified in attached table |
| Completeness:* | <input checked="" type="checkbox"/> According to Generic Site Assessment QAPP | <input type="checkbox"/> Identified in attached table |
| Comparability: | <input checked="" type="checkbox"/> According to Generic Site Assessment QAPP | <input type="checkbox"/> Identified in attached table |

*A completeness goal of 100 % has been established for this project. However, a site disposition may still be possible from the remaining valid data.

Critical sample locations are included in (check all that apply):

- ☐ Attached Table(s) ☒ Attached Map(s) ☐ Work Plan ☐ Other (Describe):

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2.5 Special Training/Certification Requirements: (Check appropriate boxes)

- | | |
|---|--|
| <input checked="" type="checkbox"/> OSHA 40-hour (HAZWOPER) | <input type="checkbox"/> Direct Push Probe/Geoprobe Operator |
| <input type="checkbox"/> Mobile GC Field Analyst | <input type="checkbox"/> In-Field XRF Operator |
| <input type="checkbox"/> Water Well Monitoring Supervisor and/or Technician | <input type="checkbox"/> Water Well Drilling Contractor and/or Drilling Supervisor |
| <input type="checkbox"/> Pump Installation Contractor and/or Supervisor | <input type="checkbox"/> Drill Rig Operator |
| <input type="checkbox"/> Other (specify): | |

2.6 Documentation And Records Proposed For Project: (Check appropriate boxes):

- | | | |
|--|---|---|
| <input type="checkbox"/> Project Work Plan | <input checked="" type="checkbox"/> Log Book/Field Notes | <input type="checkbox"/> Drilling permit(s) |
| <input checked="" type="checkbox"/> Health and Safety Plan | <input checked="" type="checkbox"/> Field Sheets | <input checked="" type="checkbox"/> GPS Coordinates |
| <input checked="" type="checkbox"/> Site Maps/Figures | <input checked="" type="checkbox"/> Chain-of-Custody <input type="checkbox"/> | <input type="checkbox"/> Licensed surveyor site map |
| <input checked="" type="checkbox"/> Site Sampling Map (attached) | <input checked="" type="checkbox"/> Site Photographs | <input type="checkbox"/> Calibration Records |
| <input type="checkbox"/> Property Access Agreement | <input type="checkbox"/> Site Videotapes | <input type="checkbox"/> ASTM Phase I ESA Requirements |
| <input type="checkbox"/> Property Ownership Records | <input type="checkbox"/> Utility Clearance Forms | <input type="checkbox"/> ASTM Phase II ESA Requirements |
| <input type="checkbox"/> Daily Tailgate Meeting Forms | | |
| <input type="checkbox"/> Other Documentation (Specify): | | |
| <input checked="" type="checkbox"/> Reports, Deliverables, or Submittals Required (Specify): Raw data with laboratory reports. | | |

3. DATA GENERATION AND AQUISITION:

3.1 Sampling Process Design

A. General Sampling Approach (Check appropriate boxes):

- ☐ Probability Sampling ☒ Judgmental Sampling

Sampling Method:

- | | | |
|---|--|--|
| <input type="checkbox"/> Simple Random Sampling | <input type="checkbox"/> Stratified Sampling | <input type="checkbox"/> Systematic/Grid Sampling |
| <input type="checkbox"/> Ranked Set Sampling | <input type="checkbox"/> Adaptive Cluster Sampling | <input checked="" type="checkbox"/> Incremental/Composite Sampling |

B. Screening/Definitive Sampling (Check appropriate boxes):

- ☐ Screening without Definitive Confirmation
- ☐ Screening with Definitive Confirmation. Confirmation sampling rate of _____% of field screening samples.
- ☒ Definitive Sampling

C. Biased/Judgmental Sampling:

- ☐ No (If No, explain the alternate sampling rationale and approach below):
- ☒ Yes (If Yes, the text below applies):

Explain below:

The proposed sampling scheme will be judgmental in accordance with EPA's *Guidance for Performing Site Inspections under CERCLA*, EPA/OSWER 9345.1-05, 1992, and *Removal Program Representative Sampling Guidance, Volume 1*, EPA/OSWER 93600.4-10, 1991. Judgmental sampling is the subjective (biased) selection of sampling locations based on available information, visual inspection, and professional judgment. Composite sampling approach will allow sampling team to select multiple sample aliquots from the designated media within each of the sample locations / areas of concern.

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3.2 Sample Methods Requirements (Specify all to be utilized):

Matrix	Sampling Method	Std. Operating Procedures	Sampling Equipment Proposed
<input type="checkbox"/> Soil			
<input type="checkbox"/> Soil-Gas			
<input type="checkbox"/> Groundwater			
<input type="checkbox"/> Surface Water			
<input type="checkbox"/> Sediment			
<input type="checkbox"/> Waste			
<input type="checkbox"/> Leachate			
<input type="checkbox"/> Air			
<input checked="" type="checkbox"/> Other (specify below): <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> Matrix: wet cake sludge, seed corn, wastewater </div> <div style="width: 40%;"> Sampling Methods: List of analytical methods attached. SOPs: Wastewater sampling 2334.3B, Sludge sampling 2334.4B, Containers, preservatives and holding times 2420.6F, Documentation 2002, Chain of Custody 2420.4E, Shipping samples 2420.7F </div> <div style="width: 40%;"> Disposable hand trowel, an expandable pole to extend sample container. </div> </div>			

3.3 Sample Handling and Custody Requirements (Check appropriate boxes):

- ☒ In accordance with Generic QAPP and SOPs

 ☒ Use Analytical Laboratory Chain of Custody Form(s) for USEPA Regional Laboratory and Contractor Laboratory.
- ☐ **Other (specify):**

3.4 Analytical Methods Requirements (Check appropriate box):

- ☒ Identified in Attached Table(s)

 ☒ Other (Describe): Specified on Chain of Custody / prearranged with Labs.

3.5 Quality Control Requirements (Check all appropriate boxes):

- ☐ Not Applicable

 ☐ In accordance with Generic QAPP
- ☒ Specific requirements (state): **No field QA/QC samples for this screening project; only lab QA/QC samples.**
- Field QC Samples to be collected:**

- | | | |
|--|----------------------------|----------------------------------|
| <input type="checkbox"/> Duplicates* | (frequency) | Prepared by: Field Personnel |
| <input type="checkbox"/> Trip Blanks (VOCs) | (frequency One per cooler) | Prepared by: Contract Laboratory |
| <input type="checkbox"/> Field Blanks* | (frequency) | Prepared by: (Select) |
| <input type="checkbox"/> Equipment Rinsate Blanks | (frequency) | Prepared by: (Select) |
| <input type="checkbox"/> Split Samples | (frequency) | Splits go to: |
| <input checked="" type="checkbox"/> Others (specify) No field QA/QC samples (screening project). | | (frequency N/A) |
- * The requirement for and frequency of field duplicates and field blanks must be established for each project.

3.6 Instrument/Equipment Testing, Inspection, and Maintenance Requirements (Check appropriate box):

- ☐ Not Applicable

 ☒ In accordance with Generic QAPP
- ☐ Specific field or laboratory equipment requirements:
- | | |
|-------------|--|
| Instrument: | Testing, Inspection, or Maintenance Frequency: |
| Instrument: | Testing, Inspection, or Maintenance Frequency: |
| Instrument: | Testing, Inspection, or Maintenance Frequency: |
- Critical Spare Parts Required:

3.7 Instrument/Equipment Calibration and Frequency (Check appropriate box):

- ☒ Not Applicable

 ☐ In accordance with Generic QAPP
- ☐ Specific field equipment requirements:
- | | |
|-------------|------------------------|
| Instrument: | Calibration Frequency: |
| Instrument: | Calibration Frequency: |
| Instrument: | Calibration Frequency: |
| Instrument: | Calibration Frequency: |

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3.8 Inspection/Acceptance Criteria for Supplies and Consumables (Check appropriate box):

- ☒ Not Applicable ☐ In accordance with Generic QAPP
☐ Specific requirements (state):

3.9 Data Acquisition Requirements for Non-Direct Measurements (Check appropriate box):

- ☐ Not Applicable ☒ In accordance with Generic QAPP
☐ Specific requirements (state):

3.10 Data Management (Check appropriate box):

- ☒ In accordance with Generic QAPP ☐ Specific requirements (state):

4. ASSESSMENT AND OVERSIGHT:

4.1A Assessment and Response Actions (Check all appropriate boxes):

- ☒ Peer Review ☐ Management Review ☐ Field Audit ☐ Lab Audit
☒ Those pertaining to analytical phases of the project will be in accordance with both US EPA Regional Laboratory and the contracted commercial Analytical Laboratory internal SOPs
☐ Specific requirements (state):

4.1B Corrective Action (Check appropriate box):

- ☒ In accordance with Generic QAPP ☐ Specific requirements (state):

4.2 Reports to Management / Assessment Reporting (Check appropriate boxes):

- ☒ In accordance with Generic QAPP
☐ In accordance with ASTM E-1527-13 Phase I Environmental Site Assessment
☐ In accordance with ASTM E-1903-11 Phase II Environmental Site Assessment
☐ Specific requirements (state):

5. DATA VALIDATION AND USABILITY:

5.1 Data Review, Verification, and Validation Requirements (Check appropriate box):

- ☒ Data review and verification will be performed by Project Manager or QC officer delegate in accordance with Generic QAPP, with data validation conducted according to Generic QAPP and in accordance with Analytical Labs protocol.

- ☐ Data review, validation and verification will be performed as follows with data validation conducted according to alternate methods (describe):

Field analysis utilized? No (If yes, memorandum, field analytical sheets, etc. from field analyst should be reviewed by Project Manager and/or Site QC Officer after completion of field analysis).

5.2 Verification and Validation Methods (Check appropriate box):

- ☒ In accordance with Generic QAPP ☐ Specific requirements (state):

5.3 Reconciliation with User Requirements—Data Quality Objectives (Check appropriate box):

- ☒ In accordance with Generic QAPP ☐ Specific requirements (state):

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6. APPROVAL SIGNATURES & DATES:

Note: The QAPP Addendum will not be considered complete until all of the appropriate approval signatures indicated below are obtained. If the QAPP Addendum has to be revised after signatures (some or all) were obtained, new signatures will be required to properly finalize and approve the revised QAPP Addendum.

Not Applicable	N/A	N/A
Contractor Project Manager (name)	Signature	Date

Wade Gregson	<i>Wade A. Gregson</i>	4/5/2019
NDEQ QA Officer/Designee (name)	Signature	Date

Daniel LeMaistre		4/5/19
NDEQ Project Manager/Designee (name)	Signature	Date

Mike Felix	Mike Felix	<small>Digitally signed by Mike Felix DN: cn=Mike Felix, o=NDEQ, ou=Remediation Section, email=mike.felix@ndeq.gov, c=US Date: 2019.04.05 13:34:27 -0500</small>
NDEQ Unit or Section Supervisor (name)	Signature	Date

Analytical Laboratory	Analytical Methods Name and/or Number:	Remarks:
US EPA Region 7 Lab	Method SW846 6010B – Soil / Solids Total Metals	
	RLAB Method 3122.3F – Soil / Solids TCLP Metals	
	Method SW846 7473 – Soil/Solids Total Mercury	
	RLAB Method 3121.23E – Soil/Solids TCLP Mercury	
	Method 200.7 / SW846 6010B – Water Total Metals	
	RLAB Method 3122.3G TCLP – Water TCLP Metals	
Midwest Laboratories	Mycotoxin Full Screen – Aflatoxin (B1, B2, G1, G2), DON, Fumonisin, Ochratoxin, T2-Toxin, Zearalenon. Reference Method: LC/MS/MS	
Pace Analytical Lab	EPA Method 8141 – TCLP Pesticides, Organophosphorous	
	EPA Method 8151 – Herbicides	
	EPA Method – Pesticides, Organochlorine	
South Dakota Ag Lab	Organophosphate Screen – References: Food Chem. 42 (12) 2751-59 (1994) and Food Chem. 34 535-538 (1986).	
	Pyrethroids – Improved LC/MS/MS Pesticide Multiresidue Analysis Using Triggered MRM and Online Dilution.	
	Neonicotinoids – LC/MS/MS Reference JAOACI 86(5): 101501037 (2003).	
	Fungicides Azoles – LC/MS/MS, ESI+ mode Reference Analytical Methods for Pesticides and Plant Growth Regulators (G.Zweig, ed) Vol. X. pp. 347	
	Fungicides Strobilurin (“Strobin”) Fungicides – Analytical Methods for Pesticides and Plant Growth Regulators (B. Zweig, ed.) Vol X, pp 347 (ethalfluralin); pp 359 (ethofumesate); pp 469-482 (pendimethalin).	

Map: AltEn LLC Sampling Map



Address: 11344 County Road 10, Mead NE 0

250

500

1 000

1 500

NFBRASKA

Site Safety Plan

Date: April 3, 2019

RE: Site sampling of AltEn LLC
1344 County Road 10, Mead, NE

Purpose:

On April 8, 2019, the NDEQ intends to conduct sampling at AltEn LLC in Mead, Nebraska. The purpose of the sampling is to characterize the waste at the location. Samples will be collected in accordance with NDEQ's Generic QAPP for Superfund Pre-Remedial Assessment and Section 128(a) Site Assessment Programs.

Potential Hazards:

The primary hazard for the nature of the material anticipated to be encountered at this location is expected to be slip, trip and fall. The risk of fire or explosion is anticipated to be minimal. Air quality, due to volatile organic compounds may be a concern. Oxygen deficient working space should not be an issue. The potential exists for strong acids or bases to be present at the site.

Safety Measures:

All NDEQ representatives will don "Level D" personal protective equipment (PPE) including hard hats and steel-toed boots.

Contact Telephone Numbers:

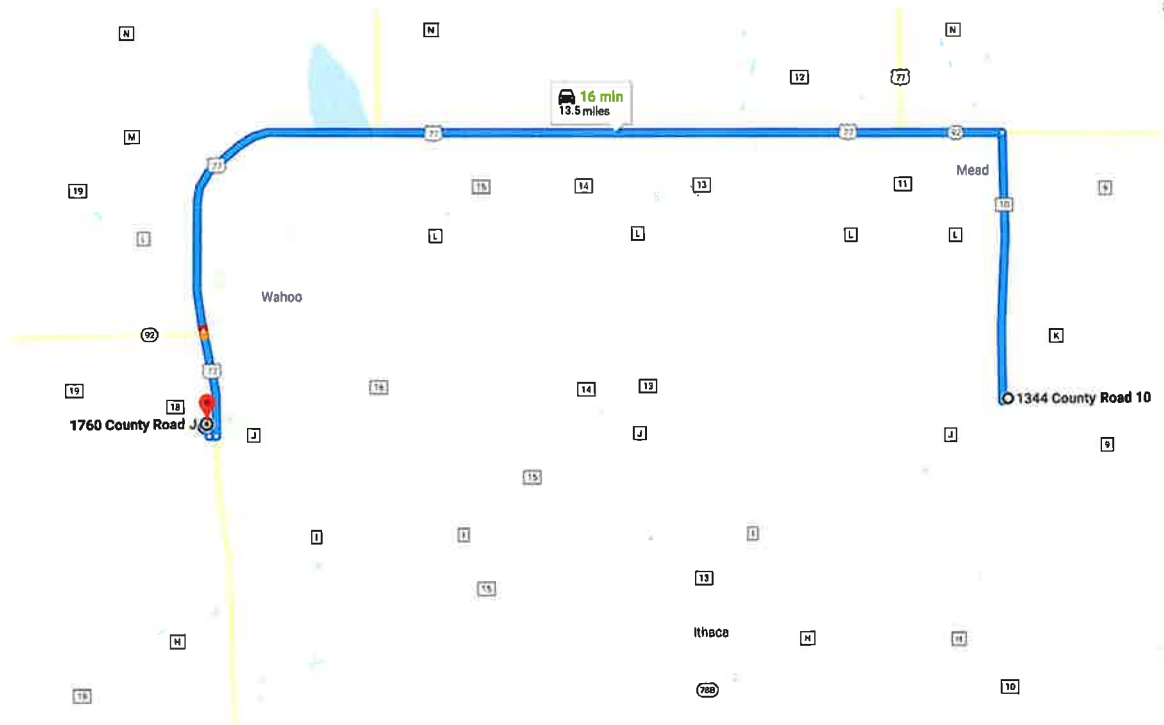
Fire/Medical	911
Saunders County Community Hospital	402/443-4191
NDEQ	402/471-2186

Route to Nearest Hospital:

Saunders County Community Hospital
(located at 1760 County Road J, Wahoo, NE)

From the AltEn Location at 1760 County Road J, Wahoo, Nebraska
Go north on county road 10 for 2.7 miles to highway 92
Turn Left (west) onto Highway 92/77 to Wahoo
Follow highway 77 (south) to county road J – Destination is on the right)

Saunders County Community Hospital
1760 County Road J, Wahoo, NE
(402) 443-4191



16 min (13.5 miles)

via US-77 S

1344 County Rd 10

Wando, NE 68067

↑ Head north on County Rd 10

2.7 mi

↶ Turn left onto NE-92 W

9.6 mi

↑ Continue onto US-77 S

1.0 mi

↷ Turn right onto County Rd J

400 ft

↷ Turn right

233 ft

↶ Turn left

469 ft

↷ Turn right

105 ft

1760 County Rd J

Wando, NE 68066